

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence that has at least 80% identity to a nucleotide sequence encoding the ITGL-TSP polypeptide of SEQ ID NO:2 over its entire length; or a nucleotide sequence complementary to said nucleotide sequence.

5 2. The polynucleotide of claim 1 which is DNA or RNA.

10 3. The polynucleotide of claim 1 wherein said nucleotide sequence is at least 80% identical to that contained in SEQ ID NO:1.

15 4. The polynucleotide of claim 3 wherein said nucleotide sequence comprises the ITGL-TSP polypeptide encoding sequence contained in SEQ ID NO:1.

15 5. The polynucleotide of claim 3 which is polynucleotide of SEQ ID NO: 1.

20 6. A DNA or RNA molecule comprising an expression system, wherein said expression system is capable of producing a ITGL-TSP polypeptide comprising an amino acid sequence, which has at least 80% identity with the polypeptide of SEQ ID NO:2 when said expression system is present in a compatible host cell.

25 7. A host cell comprising the expression system of claim 6.

25 8. A process for producing a ITGL-TSP polypeptide comprising culturing a host of claim 7 under conditions sufficient for the production of said polypeptide and recovering the polypeptide from the culture.

30 9. A process for producing a cell which produces a ITGL-TSP polypeptide thereof comprising transforming or transfecting a host cell with the expression system of claim 6 such that the host cell, under appropriate culture conditions, produces a ITGL-TSP polypeptide.

30 10. A ITGL-TSP polypeptide comprising an amino acid sequence which is at least 80% identical to the amino acid sequence of SEQ ID NO:2 over its entire length.

11. The polypeptide of claim 10 which comprises the amino acid sequence of SEQ ID NO:2.

12. An antibody immunospecific for the ITGL-TSP polypeptide of claim 10.

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13. A method for the treatment of a subject in need of enhanced activity or expression of ITGL-TSP polypeptide of claim 10 comprising:

(a) administering to the subject a therapeutically effective amount of an agonist to said polypeptide; and/or

10 (b) providing to the subject a polynucleotide of claim 1 in a form so as to effect production of said polypeptide activity *in vivo*.

14. A method for the treatment of a subject having need to inhibit activity or expression of ITGL-TSP polypeptide of claim 10 comprising:

15 (a) administering to the subject a therapeutically effective amount of an antagonist to said polypeptide; and/or

(b) administering to the subject a nucleic acid molecule that inhibits the expression of the nucleotide sequence encoding said polypeptide; and/or

20 (c) administering to the subject a therapeutically effective amount of a polypeptide that competes with said polypeptide for its ligand, substrate, or receptor.

15. A process for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of ITGL-TSP polypeptide of claim 10 in a subject comprising:

25 (a) determining the presence or absence of a mutation in the nucleotide sequence encoding said ITGL-TSP polypeptide in the genome of said subject; and/or

(b) analyzing for the presence or amount of the ITGL-TSP polypeptide expression in a sample derived from said subject.

16. A method for identifying compounds which inhibit (antagonize) or agonize the ITGL-TSP polypeptide of claim 10 which comprises:

30 (a) contacting a candidate compound with cells which express the ITGL-TSP polypeptide (or cell membrane expressing ITGL-TSP polypeptide) or respond to ITGL-TSP polypeptide; and

(b) observing the binding, or stimulation or inhibition of a functional response; or
comparing the ability of the cells (or cell membrane) which were contacted with the candidate compounds with the same cells which were not contacted for ITGL-TSP polypeptide activity.

5 17. An agonist identified by the method of claim 16.

18. An antagonist identified by the method of claim 16.
